

Product datasheet for **MC201222**

Mtmr6 (NM_144843) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr6 (NM_144843) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtmr6
Synonyms:	4022440C11Rik; AI428804; AU041072
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC020019 sequence for NM_144843
 GTCACCGCCCGTTTCTCTCCCGATGGTGTCTCTCTGAGGCCAGCTGCCTGCGGGCGTCGCCCGGGATG
 GAGCACATCCGGACAACCAAGGTTGAACAAGTAAAGTTACTTGACCGGTTTAGTACCAACAACAAGTCAC
 TGACAGGAACACTGTATCTTACGGCCACACACCTATTATTTATTGACGCTCAGCAAAAAGAAACCTGGAT
 ACTACACCACCATATTGCCTCTGTGGAGAACTTGCTCTGACCACTTCTGGATGCCCACTTGTGATTGAG
 TGCAAGAACTTCAGGATTGTGCATTTTCATTGTTCCAGGGAAAGAGATTGCCACGATATTTATAACTCTC
 TCCTGCAGCTATCAAAAACAAGCAAAATATGAAGATCTCTATGCCTTCTCTTATAATCCCAAGCAAAATGA
 TACTGAACGACGGAATGGTTGGCAGCTTATTGACCTTGCTGCGGAGTATGAGAGGATGGGAGTGCCCAAT
 GCAAACTGGCAACTGTCCGATGCCAACCAGAGTACAAGGTCTGTGAGACTTATCCAGAGAGCTGTATG
 TTCCTCGGACAGCTAGCCGGCCGGTGTCTGTTGGCAGTCCCAACTCCGGAGCAAGGGCAGACTCCGGT
 CCTATCTACTGCCGGCAGGCACTGAGGCTGCCATTTGTCGATGTAGTCAGCCATTGTCAGGCTTCAGT
 GCCAGGTGCTAGAGGATGAGCATTGCTTCAAGCCATTAGTAAAGCCAACCCAGAAACCGCTACATGT
 ATGTTGTGGATACCAGGCCAAGCTCAATGCAATAGCTAACAGAGCAGCTGGAAAAGGTTATGAAAATGA
 AGACAATATTCTAATATTAGATTTGAGTTCGTTGGAATAGAAAATATTCATGTCATGAGATCCAGCCTT
 CAGAAATTAAGTGAAGTGAATGGTGAAGGGGCTTTCTGTCAATGATTTCTACTCTGGTTTGGAAAGTT
 CAGGATGGCTTCGCCATATCAAGGCTGTTTGGATGCTGCAATCTTCTAGCCAAAGCAATAGTGGTTGA
 AAATGCAAGTGTGTTGGTCCACTGTTCCGATGGGTGGGACAGGACCTCCCAAGTGTGCTCCCTCGGCTCA
 CTGTTGTTGGATTCTACTACAGGACAATGAAAGGATTGATGGTTTTAATAGAAAAGATTGGATATCAT
 TTGGGCATAAAATTTTCAGAGAGGTGTGGCCATTTGGATGGAGACCCGAGGGAGGTCTCACCAGTGTTCAC
 TCAGTTCCTGGAGTGTCTGGCACCTGACTCAGCAGTCCCAACAAGCCTTCGAGTTCAACGAAGCGTTT
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 GAGAGAACTCAGGTTAAAGGAGAAAATCTACTCCCTGTGGCCTTTTCTTTTGGATGACAAAAAGAAGTA
 CTTAAATCCTCTACAGTTCCAATCTCAGAGACTGACAGTCTTGGAGCCAAATACAGCCTCTTTCAAT
 TTTAAGTTTTGGAGAAACATGTACCACCAAGTTTGTATCGGACGCTCCATCCTCGGCAGTCTGTGCTGAGCA
 TAATTATGAATATGAATGAGCAAAGCAAGCAGTTAGAGGAAGACATTAAGACCTCGAGGCTAAAATTA
 GCAATGCAAAAATGGCATCCTAACGAAGGAGTTGCTGCATGCTGTCCACCCTGAATCACCTGCCCTGAAA
 ACCTCGTGTGTCTCAAAGAGCCGAGTCTGCTTCCCGTGAAGGACACACTCCGAGCTATAGAGGGCAGCA
 GCCCAGCAGATAATCGTACTGTGACTATGCCGAGGAATTTCTAAGTCGGAGCCTACCCTGGTTCAGCTT
 GGAGTACGGGGTGGCCAGAATGACTTGTAGCCTCCTCCGTGATCCCTGGATGACTGTAGTGAAGAAA
 TGTATAGTTGTGAGGATGGTCTGTACACATGGGCAGGAGGGGTTGTTGAGTGACTTTGGGGCTTAGCAGT
 AAGTGAGAAAAGTAGGTAGCTGAGAAAAGGATCATAGCAACTCTTGAGAGGAGTGAGTCAGCTAAGTGCCA
 TTTGTAACAAGAACATACTCATTCTGTAGGAAGTGAGTGTAGTGTGTATGTACTGGAAAGGGGTTA
 CACAGGACTGGTGTGAGCTGACAGTCTGTTGATTAGATGTTAATCCAGCCACGCTCAGTAGCTTCTCTCT
 AACTCTGAGAAAACAGACCTGACAACCTGAACCCTCAGTGACTGATGTGGCATGTGCTTTCAGTTCTGGA
 GCTGTGTGACTGTGGATTTTGCAGTCACAAAAATCCAAATATATAGTCAAAAATATAGTGACGTTTTAAC
 ATTAAGTGCCATGAAAAGTACTTATGGGACAGCCTTAAAGTAGACTCTCAGTTTATTCTGTGGGTTTTA
 TAGCCGAGGACAGGATGTTTGTCTCTCCTTAAATCAGCCTTATTTTCATATGAAGAACTAACTGCACTCT
 GATTACTTGGGGCCGCACACTGCAGTGTCCACCATGGAAAGTTGTAGACATACTCTGCTAGTTTGTAA
 TTAGCCAGCTCCACCCGTATTTAAAATCAGTGTTACCGAAGGCTTTGTTCTCGTTGTCATTTGTTCCAAG
 CTGCAGCTGACAGTTCATTATTCACAGCTTAGAGGACTCATTCTTAGGCTAGTATAAGCACATTTGGCA
 TTTACTTTTCGGCTTACTGCACTTATTAATTTCTACTCTGTGGTTGGCTTAAATCCTTTGATAACTGTAC
 ATTTAAAGTGGCAAAGCTCTAAAGCGTTCTGAGTACTAAATACATTTTTAACTTGACTGTAGCTGCCTAT
 AAATTTTCAGGTAAGGAAAAAGGGAAGTGCGGGTAGTGGAGATTTTGTGGTTACGAATTTCTAAAGCA
 ATCATTTTTGTGTGGAGCATATTTCTTACTCTTAATATAGGAGGGGCAGAGAAGGGAGCACTGGGGGAG
 CCAGCTAATGTCCAACAGAAGCAGCTTTGACGCAGGAAAAGGTTATTTTGCTTT

Restriction Sites: RsrII-NotI
ACCN: NM_144843
Insert Size: 1854 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC020019 , AAH20019
RefSeq Size:	3065 bp
RefSeq ORF:	1854 bp
Locus ID:	219135
UniProt ID:	Q8VE11
Cytogenetics:	14 D1
Gene Summary:	<p>Phosphatase that acts on lipids with a phosphoinositol headgroup. Dephosphorylates phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 3,5-bisphosphate. Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) but also to phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4-phosphate (PtdIns(4)P), and phosphatidylinositol 5-phosphate (PtdIns(5)P), phosphatidic acid and phosphatidylserine (By similarity). Negatively regulates ER-Golgi protein transport (By similarity). Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles (PubMed:24591580). Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4(+) T-cells possibly by decreasing intracellular levels of phosphatidylinositol 3-phosphate. Negatively regulates proliferation of reactivated CD4(+) T-cells. In complex with MTMR9, negatively regulates DNA damage-induced apoptosis. The formation of the MTMR6-MTMR9 complex stabilizes both MTMR6 and MTMR9 protein levels (By similarity).[UniProtKB/Swiss-Prot Function]</p>